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PRINTED CIRCUIT ANTENNA AND MANUFACTURE OF THE SAME

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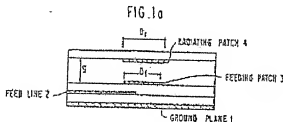
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A printed-circuit antenna array having broadband linear polarization, and circular polarization with high polarization purity, feedlines (2) of the array being capacitively coupled to feeding elements (3) at a single feedpoint or at multiple feedpoints, the feeding elements in turn being electromagnetically coupled to corresponding radiating elements (4). The radiating elements may be patches, disposed on a dielectric board which is contactlessly coupled to another board containing the feeding elements. Alternatively, the radiating elements may be slots, formed by an absence of material in ground planes which are formed on the same dielectric board as the feeding elements. Still further, both radiating patches and radiating slots may be used. The exclusively contactless coupling enables simple, inexpensive multilayer manufacture.



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